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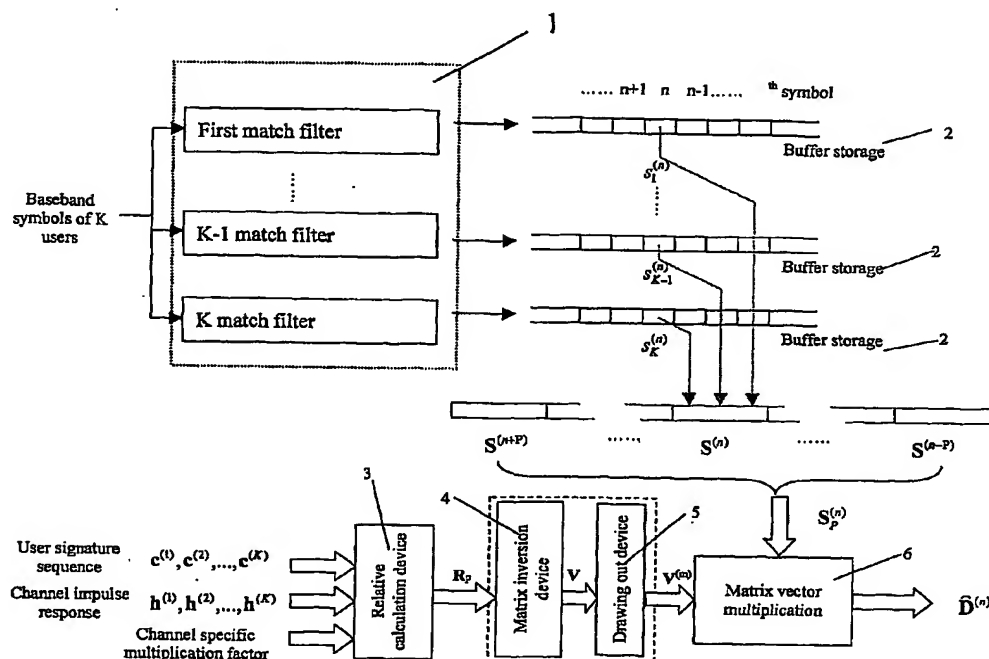
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(54) Title: METHOD AND DEVICE FOR MULTI-USER DETECTION WITH SIMPLIFIED DE-CORRELATION IN A CDMA SYSTEM



(57) Abstract: A simplified de-correlation method in CDMA multi-user detection comprises: a. receive wireless symbols  $S$ ; b. obtain a channel correlation matrix  $R$ , take a part from  $R$  to get a partial correlation matrix  $R_p$ ; c. do inversion operation to the partial correlation matrix  $R_p$ , then obtain matrix  $V^{(m)}$ ; d. recover original data symbols  $D$  from received symbols  $S$  by  $V^{(m)}$  that the location of original data symbols  $D$  corresponds to.



ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

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